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| EIE4432 Interim Report |
| Flight Booking System |
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**Technologies**

Front End: React + Tailwind

Backend: Node with Express

Database: MySQL

**Website Structure**

Index (Log in or sign up)

┃ ┗ Sign up Page (Create an account)

┃ ┗ Login Page (Sign into an account)

┣ Flights ("Event" Listings)

┃ ┗ Booking Page (Seat selection)

┃   ┗ Payment Page (Enter payment details)

┣ My Bookings (View purchased flights)

┣ User Profile (View and update profile)

┗ Admin page (Only if admin is logged in)

┗ Seat management (Edit seat maps for different planes)

┗ Flight management (Add new flights, "event" management)

**Prototype Screen Captures**

IndexA screenshot of a computer

Description automatically generated

Sign UpA screenshot of a login form

Description automatically generated

Sign In

A sign in to a login

Description automatically generated

User Profile

A screenshot of a computer

Description automatically generated

Flights

A screenshot of a flight information

Description automatically generated

Bookings

A screenshot of a computer

Description automatically generated

Payments

A screenshot of a computer

Description automatically generated

My Bookings

A screenshot of a computer

Description automatically generated

Admin

A screenshot of a computer

Description automatically generated

Seat ManagementA screenshot of a computer

Description automatically generated

Event Management

A screenshot of a computer

Description automatically generated

**Application Flow Description**

On entry, the user will be met with the index page. If they are not logged in, they will be prompted to either log in or sign up. The user should not be able to access any of the other pages if they are not logged in.

Clicking log in will direct the user to the login page, where they can input their credentials. If the account is admin, they will be granted special privileges. Otherwise, they will be logged in as an ordinary user. They will be redirected to the flights page.

Clicking on signup will bring them to the signup page. They can enter their user id, email, password, nickname, gender, birthdate and profile picture. After submission, they will be redirected to the flights page.

An *ordinary* logged in user can directly access the **Flights** page or the **My Bookings** page.

The fights page displays all available flights (our site only services short flights from HKG), which can then be filtered by date, destination, etc. After a user finds a flight, they are interested in, they can click the “book” button. This will bring them to the seat selection page (**Booking** page), where they can choose a vacant seat to purchase. After selecting a seat, they are brought to the **Payment** page, where they enter personal and payment details to finalize the purchase of a ticket. On success the ticket is displayed.

All purchased tickets can then be accessed and viewed from the **My Bookings** page.

Users can view and edit their profile under the **My Profile** page.

An *admin* user has access to 2 special pages. The **seat management** page allows an admin to change seat configurations. The real-life analogy to this would be if the airline purchased a new aircraft with a different seat configuration. An admin can also add or remove flights from the **flight management** page.

Work Distributed

Ken: Index, Admin, Bookings, Event Mangement, Flights, My Bookings, Payment, Seat Management, Report

Anson: Login, Signup, User Profile, Report